

# Anna Musyanovych

## List of Publications by Year in descending order

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68  
papers

6,525  
citations

101543

36  
h-index

106344

65  
g-index

71  
all docs

71  
docs citations

71  
times ranked

10253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uptake of polymeric nanoparticles in a human induced pluripotent stem cell-based blood-brain barrier model: Impact of size, material, and protein corona. <i>Biointerphases</i> , 2021, 16, 021004.	1.6	7
2	Formulation of Next-Generation Multicompartment Microcapsules by Reversible Electrostatic Attraction. <i>Chemistry - A European Journal</i> , 2021, 27, 9336-9341.	3.3	5
3	The Role of Nanoparticles on Topographic Cross-Talk in Electric Force Microscopy and Magnetic Force Microscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900828.	1.8	6
4	Magnetic Imaging of Encapsulated Superparamagnetic Nanoparticles by Data Fusion of Magnetic Force Microscopy and Atomic Force Microscopy Signals for Correction of Topographic Crosstalk. <i>Nanomaterials</i> , 2020, 10, 2486.	4.1	8
5	Formation of three-dimensional polymer structures through radical and ionic reactions of peroxychitosan. <i>Studies in Natural Products Chemistry</i> , 2020, , 365-390.	1.8	7
6	Gelatin-Based Capsules through Interfacial Polymerization: Batch and Continuous Flow Synthesis. <i>Chemical Engineering and Technology</i> , 2019, 42, 2119-2126.	1.5	0
7	Design of Cross-Linked Starch Nanocapsules for Enzyme-Triggered Release of Hydrophilic Compounds. <i>Processes</i> , 2017, 5, 25.	2.8	16
8	Optical properties of hydrogels filled with dispersed nanoparticles. <i>Chemistry and Chemical Technology</i> , 2017, 11, 449-453.	1.1	9
9	Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-Polystyrene Hybrid Nanoparticles via Miniemulsion Polymerization. <i>Macromolecular Reaction Engineering</i> , 2016, 10, 39-46.	1.5	2
10	Carboxyl- and amino-functionalized polystyrene nanoparticles differentially affect the polarization profile of M1 and M2 macrophage subsets. <i>Biomaterials</i> , 2016, 85, 78-87.	11.4	141
11	Poly(lactide)-Based Nanoparticles with Tailor-Made Functionalization. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1774-1781.	2.2	4
12	How morphology influences relaxivity - comparative study of superparamagnetic iron oxide-polymer hybrid nanostructures. <i>Contrast Media and Molecular Imaging</i> , 2015, 10, 456-464.	0.8	5
13	Tailoring the stealth properties of biocompatible polysaccharide nanocontainers. <i>Biomaterials</i> , 2015, 49, 125-134.	11.4	53
14	Nanoprobng the acidification process during intracellular uptake and trafficking. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1585-1596.	3.3	11
15	Protein Corona of Nanoparticles: Distinct Proteins Regulate the Cellular Uptake. <i>Biomacromolecules</i> , 2015, 16, 1311-1321.	5.4	497
16	Functionalized polystyrene nanoparticles as a platform for studying bio-nano interactions. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2403-2412.	2.8	165
17	Polymer-Inorganic Coatings Containing Nanosized Sorbents Selective to Radionuclides. 2. Latex/Tin Oxide Composites for Cobalt Fixation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22387-22392.	8.0	6
18	ADMET reactions in miniemulsion. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1300-1305.	2.3	18

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19	Polymer Micro- and Nanocapsules as Biological Carriers with Multifunctional Properties. <i>Macromolecular Bioscience</i> , 2014, 14, 458-477.	4.1	117
20	Polymer Janus Nanoparticles with Two Spatially Segregated Functionalizations. <i>Macromolecules</i> , 2014, 47, 7194-7199.	4.8	32
21	Polymer-Inorganic Coatings Containing Nanosized Sorbents Selective to Radionuclides. 1. Latex/Cobalt Hexacyanoferrate(II) Composites for Cesium Fixation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16769-16776.	8.0	14
22	Tailor-Made Nanocontainers for Combined Magnetic-Field-Induced Release and MRI. <i>Macromolecular Bioscience</i> , 2014, 14, 1205-1214.	4.1	12
23	pH-Sensitive Chitosan-based Hydrogel Nanoparticles through Miniemulsion Polymerization Mediated by Peroxide Containing Macromonomer. <i>Macromolecular Bioscience</i> , 2014, 14, 1076-1083.	4.1	13
24	Amino-functionalized nanoparticles as inhibitors of mTOR and inducers of cell cycle arrest in leukemia cells. <i>Biomaterials</i> , 2014, 35, 1944-1953.	11.4	74
25	Janus nanoparticles with both faces selectively functionalized for click chemistry. <i>Polymer Chemistry</i> , 2014, 5, 4097.	3.9	22
26	Glutathione-Responsive DNA-Based Nanocontainers Through an Interfacial Click Reaction in Inverse Miniemulsion. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2457-2462.	2.2	9
27	Polymeric nanoparticles of different sizes overcome the cell membrane barrier. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 265-274.	4.3	59
28	(Oligo)mannose functionalized hydroxyethyl starch nanocapsules: en route to drug delivery systems with targeting properties. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4338.	5.8	44
29	Rapid formation of plasma protein corona critically affects nanoparticle pathophysiology. <i>Nature Nanotechnology</i> , 2013, 8, 772-781.	31.5	1,817
30	Complex encounters: nanoparticles in whole blood and their uptake into different types of white blood cells. <i>Nanomedicine</i> , 2013, 8, 699-713.	3.3	27
31	Enzyme Responsive Hyaluronic Acid Nanocapsules Containing Polyhexanide and Their Exposure to Bacteria To Prevent Infection. <i>Biomacromolecules</i> , 2013, 14, 1103-1112.	5.4	122
32	Hydrolysis of poly(hydroxybutyrate-co-hydroxyvalerate) nanoparticles. <i>Journal of Applied Polymer Science</i> , 2013, 128, 3093-3098.	2.6	15
33	pH Stability of Poly(urethane/urea) Capsules Synthesized from Different Hydrophilic Monomers via Interfacial Polyaddition in the Inverse Miniemulsion Process. <i>Macromolecular Symposia</i> , 2013, 331-332, 71-80.	0.7	8
34	Surface Click Reactions on Polymeric Nanocapsules for Versatile Functionalization. <i>Macromolecules</i> , 2012, 45, 3419-3427.	4.8	38
35	Performing Encapsulation of dsDNA and a Polymerase Chain Reaction (PCR) inside Nanocontainers Using the Inverse Miniemulsion Process. <i>International Journal of Artificial Organs</i> , 2012, 35, 77-83.	1.4	9
36	Suppressing Unspecific Cell Uptake for Targeted Delivery Using Hydroxyethyl Starch Nanocapsules. <i>Biomacromolecules</i> , 2012, 13, 2704-2715.	5.4	89

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37	Competitive Cellular Uptake of Nanoparticles Made From Polystyrene, Poly(methyl methacrylate), and Polylactide. <i>Macromolecular Bioscience</i> , 2012, 12, 454-464.	4.1	16
38	Towards copper-free nanocapsules obtained by orthogonal interfacial $\text{A}^{\text{click}}$ -polymerization in miniemulsion. <i>Chemical Communications</i> , 2012, 48, 5470.	4.1	37
39	Labeling of mesenchymal stromal cells with iron oxide-poly(l-lactide) nanoparticles for magnetic resonance imaging: uptake, persistence, effects on cellular function and magnetic resonance imaging properties. <i>Cytotherapy</i> , 2011, 13, 962-975.	0.7	30
40	Differential Uptake of Functionalized Polystyrene Nanoparticles by Human Macrophages and a Monocytic Cell Line. <i>ACS Nano</i> , 2011, 5, 1657-1669.	14.6	516
41	Specific effects of surface carboxyl groups on anionic polystyrene particles in their interactions with mesenchymal stem cells. <i>Nanoscale</i> , 2011, 3, 2028.	5.6	96
42	BSA Adsorption on Differently Charged Polystyrene Nanoparticles using Isothermal Titration Calorimetry and the Influence on Cellular Uptake. <i>Macromolecular Bioscience</i> , 2011, 11, 628-638.	4.1	135
43	DNA Amplification via Polymerase Chain Reaction Inside Miniemulsion Droplets with Subsequent Poly( <i>n</i> -butylcyanoacrylate) Shell Formation and Delivery of Polymeric Capsules into Mammalian Cells. <i>Macromolecular Bioscience</i> , 2011, 11, 1099-1109.	4.1	21
44	Biodegradable Polymeric Nanoparticles as Templates for Biomimetic Mineralization of Calcium Phosphate. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 915-925.	2.2	13
45	Effect of functionalised fluorescence-labelled nanoparticles on mesenchymal stem cell differentiation. <i>Biomaterials</i> , 2010, 31, 2064-2071.	11.4	51
46	From polymeric particles to multifunctional nanocapsules for biomedical applications using the miniemulsion process. <i>Journal of Polymer Science Part A</i> , 2010, 48, 493-515.	2.3	155
47	Hydrogels in Miniemulsions. <i>Advances in Polymer Science</i> , 2010, , 39-63.	0.8	38
48	Controlled Release from Polyurethane Nanocapsules via pH-, UV-Light- or Temperature-Induced Stimuli. <i>Macromolecules</i> , 2010, 43, 5083-5093.	4.8	98
49	Specific Effects of Surface Amines on Polystyrene Nanoparticles in their Interactions with Mesenchymal Stem Cells. <i>Biomacromolecules</i> , 2010, 11, 748-753.	5.4	112
50	Cross-Linked Starch Capsules Containing dsDNA Prepared in Inverse Miniemulsion as $\text{A}^{\text{click}}$ -Nanoreactors for Polymerase Chain Reaction. <i>Biomacromolecules</i> , 2010, 11, 960-968.	5.4	63
51	Nanostructured Coatings by Adhesion of Phosphonated Polystyrene Particles onto Titanium Surface for Implant Material Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2421-2428.	8.0	40
52	Targeted Polymeric Nanoparticles. , 2010, , 417-428.		0
53	Targeted lipid-coated nanoparticles: Delivery of tumor necrosis factor-functionalized particles to tumor cells. <i>Journal of Controlled Release</i> , 2009, 137, 69-77.	9.9	82
54	Fluorescent Superparamagnetic Polylactide Nanoparticles by Combination of Miniemulsion and Emulsion/Solvent Evaporation Techniques. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 961-970.	2.2	58

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55	Fluorescent Polyurethane Nanocapsules Prepared via Inverse Miniemulsion: Surface Functionalization for Use as Biocarriers. <i>Macromolecular Bioscience</i> , 2009, 9, 575-584.	4.1	62
56	Synthesis of phosphonate-functionalized polystyrene and poly(methyl methacrylate) particles and their kinetic behavior in miniemulsion polymerization. <i>Colloid and Polymer Science</i> , 2009, 287, 1261-1271.	2.1	58
57	Surface-Active Monomer as a Stabilizer for Polyurea Nanocapsules Synthesized via Interfacial Polyaddition in Inverse Miniemulsion. <i>Langmuir</i> , 2009, 25, 12084-12091.	3.5	73
58	Carboxylated Superparamagnetic Iron Oxide Particles Label Cells Intracellularly Without Transfection Agents. <i>Molecular Imaging and Biology</i> , 2008, 10, 138-146.	2.6	133
59	Preparation of Biodegradable Polymer Nanoparticles by Miniemulsion Technique and Their Cell Interactions. <i>Macromolecular Bioscience</i> , 2008, 8, 127-139.	4.1	124
60	Uptake Mechanism of Oppositely Charged Fluorescent Nanoparticles in HeLa Cells. <i>Macromolecular Bioscience</i> , 2008, 8, 1135-1143.	4.1	256
61	Synthesis and Optimization of Gelatin Nanoparticles Using the Miniemulsion Process. <i>Biomacromolecules</i> , 2008, 9, 2383-2389.	5.4	93
62	Synthesis of Poly(butylcyanoacrylate) Nanocapsules by Interfacial Polymerization in Miniemulsions for the Delivery of DNA Molecules. , 2008, , 120-127.		13
63	Effect of Hydrophilic Comonomer and Surfactant Type on the Colloidal Stability and Size Distribution of Carboxyl- and Amino-Functionalized Polystyrene Particles Prepared by Miniemulsion Polymerization. <i>Langmuir</i> , 2007, 23, 5367-5376.	3.5	120
64	Uptake of functionalized, fluorescent-labeled polymeric particles in different cell lines and stem cells. <i>Biomaterials</i> , 2006, 27, 2820-2828.	11.4	279
65	Preparation of Fluorescent Carboxyl and Amino Functionalized Polystyrene Particles by Miniemulsion Polymerization as Markers for Cells. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 2440-2449.	2.2	174
66	Miniemulsion Droplets as Single Molecule Nanoreactors for Polymerase Chain Reaction. <i>Biomacromolecules</i> , 2005, 6, 1824-1828.	5.4	51
67	Grafting of Amino Functional Monomer onto Initiator-Modified Polystyrene Particles. <i>Langmuir</i> , 2005, 21, 2209-2217.	3.5	35
68	Hydroperoxide-Containing Terpolymers as Inisurfs in Emulsion Polymerization of Styrene. <i>Langmuir</i> , 2003, 19, 9619-9624.	3.5	6